

Introduction

This summary represents key outcomes of all patients who received a FASD diagnostic evaluation from one of the seven FAS DPN diagnostic clinics in Washington State from 1993 through 2005. All patients were evaluated by an interdisciplinary diagnostic team (medical doctor, psychologist, speech-language pathologist, occupational therapist, social worker, and family advocate). All teams used the FASD 4-Digit Diagnostic Code. All outcomes reported below have been updated to the most current edition of the 4-Digit Code (3rd edition; Astley,2004).

Astley SJ, Diagnostic Guide for Fetal Alcohol Spectrum Disorders: The 4-Digit Diagnostic Code, 3rd edition, University of Washington, Seattle WA, 2004 (www.fasdpn.org)

Criteria required to obtain a diagnostic evaluation at one of the WA State FAS DPN Clinics

The only criteria required to be seen in a Washington State FAS DPN clinic is a confirmed prenatal alcohol history (Alcohol Rank 3 or 4). The presence of the full FAS facial phenotype (Face Rank 4) can be used in lieu of a confirmed prenatal alcohol history.

OUTCOMES

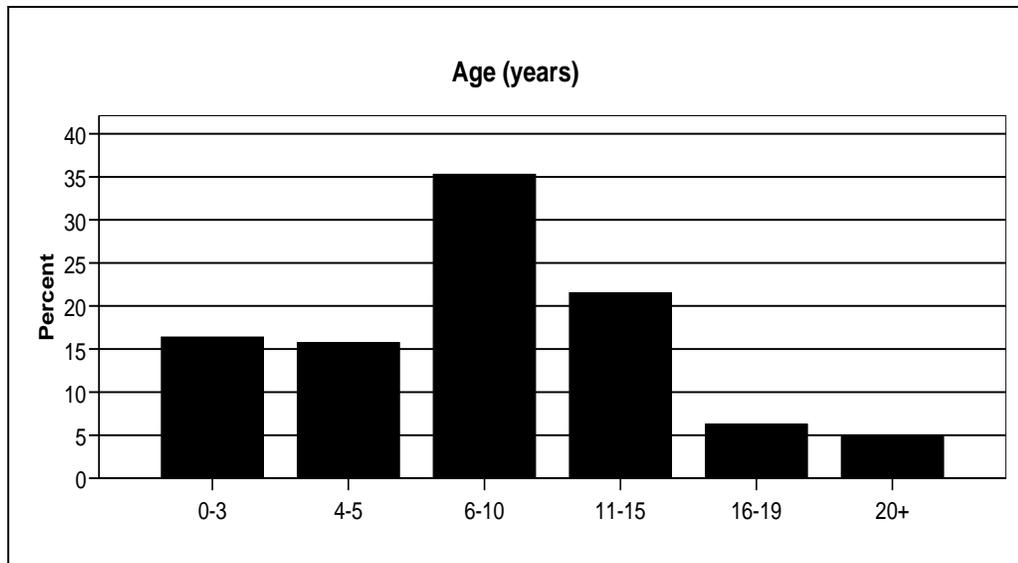
Gender	n	(valid %)
Male	987	(57.1)
Female.....	742	(42.9)

Race (reported as one race, not mixed)	n	(valid %)
White.....	860	(49.7)
American, Alaskan, or Canadian Indian	131	(7.6)
Black	100	(5.8)
Asian	0	(0.0)
All others (including mixed race)	617	(35.7)

WA State 2000 census for one race (White 82%, American Indian/Native Alaskan 2%, Black 3%, Asian 6%)

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Summary of the First 1,729 Patients Diagnosed from 1993 through 2005
 Using the Diagnostic Guide for FASD: The 4-Digit Diagnostic Code, 3rd edition (Astley, 2004)

Age at Time of Diagnosis (years)	n	(valid %)
0.0 - 0.9.....	22	(1.3)
1.0 - 1.9.....	78	(4.5)
2.0 - 2.9.....	77	(4.5)
3.0 - 3.9.....	106	(6.1)
4.0 - 4.9.....	136	(7.9)
5.0 - 5.9.....	136	(7.9)
6.0 - 6.9.....	157	(9.1)
7.0 - 7.9.....	127	(7.3)
8.0 - 8.9.....	127	(7.3)
9.0 - 9.9.....	106	(6.1)
10.0 - 10.9.....	93	(5.4)
11.0 - 11.9.....	94	(5.4)
12.0 - 12.9.....	80	(4.6)
13.0 - 13.9.....	84	(4.9)
14.0 - 14.9.....	63	(3.6)
15.0 - 15.9.....	51	(2.9)
16.0 - 16.9.....	47	(2.7)
17.0 - 17.9.....	31	(1.8)
18.0 - 18.9.....	21	(1.2)
19.0 - 19.9.....	9	(0.5)
20.0 - 29.9.....	54	(3.1)
30.0 +	30	(1.7)
	mean	(SD)
	9.4	(6.5)
	minimum	maximum
	0.2	50.8



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Closest Relation Accompanying Patient to Clinic	n	(valid %)
Birth mother	311	(18.8)
Birth father	115	(7.0)
Other biological family member	259	(15.7)
Step parent	14	(0.8)
Adoptive parent.....	418	(25.3)
Foster parent.....	373	(22.5)
Social or caseworker	52	(3.1)
Other	112	(6.8)

Who Referred Patient for a Diagnostic Evaluation	n	(valid %)
Social Service Agency (social worker, caseworker).....	365	(27.0)
Physician	329	(24.3)
Other Professional (e.g., psychologist/therapist)	305	(22.5)
Caregiver/Family/Friend/Self	83	(6.1)
Mental Health Agency	75	(5.5)
School	73	(5.4)
Legal System.....	32	(2.4)
Other	92	(6.8)

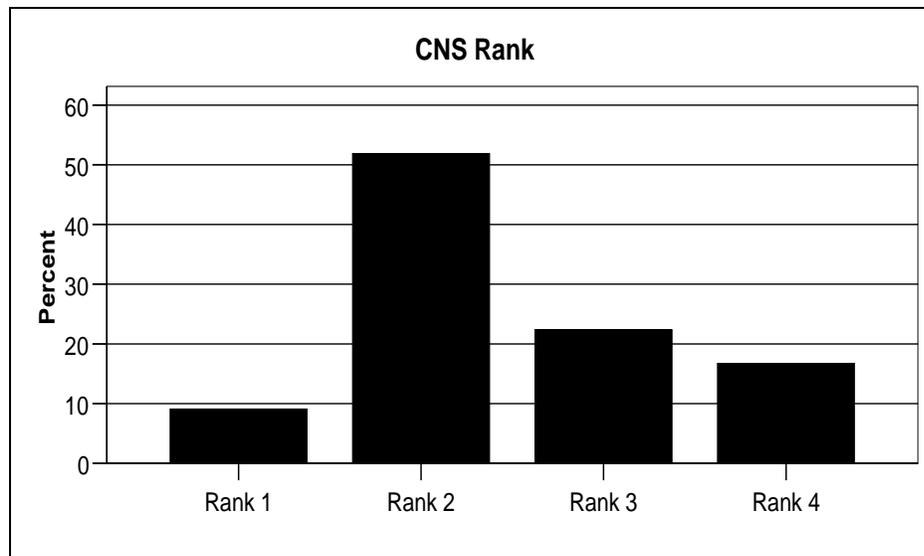
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4-Digit Diagnostic Category			Prevalence n (valid %)		Age (years) mean (SD)	
A.	FAS	(alcohol exposed)	57	(3.3)	6.6	(7.8)
B.	FAS	(alcohol unknown)	8	(0.5)	14.2	(6.2)
C.	Partial FAS	(alcohol exposed)	101	(5.8)	10.1	(8.3)
D.	FAS Phenocopy (looks like FAS, but it is not FAS)	(no alcohol exposure)	0	(0.0)	(--)	(--)
E.	Sentinel physical findings / static encephalopathy	(alcohol exposed)	97	(5.6)	8.5	(5.9)
F.	Static encephalopathy	(alcohol exposed)	311	(18.0)	10.6	(6.1)
G.	Sentinel physical findings / neurobehavioral disorder	(alcohol exposed)	164	(9.5)	7.7	(5.7)
H.	Neurobehavioral disorder	(alcohol exposed)	575	(33.3)	9.3	(5.5)
I.	Sentinel physical findings	(alcohol exposed)	34	(2.0)	6.8	(8.6)
J.	No cognitive/behavioral or sentinel physical findings	(alcohol exposed)	98	(5.7)	6.7	(6.4)
K.	Sentinel physical findings / static encephalopathy	(alcohol unknown)	31	(1.8)	11.2	(6.9)
L.	Static encephalopathy	(alcohol unknown)	68	(3.9)	11.4	(4.9)
M.	Sentinel physical findings / neurobehavioral disorder	(alcohol unknown)	40	(2.3)	12.3	(9.6)
N.	Neurobehavioral disorder	(alcohol unknown)	116	(6.7)	11.5	(6.9)
O.	Sentinel physical findings	(alcohol unknown)	5	(0.3)	5.4	(1.8)
P.	No cognitive/behavioral or sentinel physical findings	(alcohol unknown)	20	(1.2)	8.1	(10.3)
Q.	Sentinel physical findings / static encephalopathy	(no alcohol exposure)	1	(0.1)	8.9	(--)
R.	Static encephalopathy	(no alcohol exposure)	1	(0.1)	4.3	(--)
S.	Sentinel physical findings / neurobehavioral disorder	(no alcohol exposure)	1	(0.1)	5.3	(--)
T.	Neurobehavioral disorder	(no alcohol exposure)	1	(0.1)	6.8	(--)
U.	Sentinel physical findings	(no alcohol exposure)	0	(0.0)	(--)	(--)
V.	No cognitive/behavioral or sentinel physical findings	(no alcohol exposure)	0	(0.0)	(--)	(--)

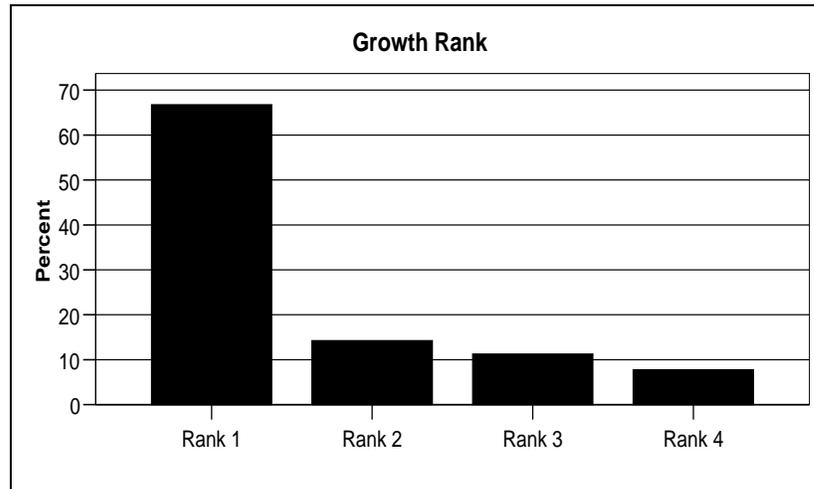
Evidence of Organic Brain Damage	n	(valid %)
Static encephalopathy (FAS or Partial FAS)	166	(9.5)
Static encephalopathy (not FAS or Partial FAS)	508	(29.4)
Neurobehavioral disorder.....	897	(51.9)
No evidence of organic brain damage	158	(9.2)

Microcephaly (2 or more standard deviations below the norm)	n	(valid %)
At time of diagnosis	213	(12.3)

CNS Rank:	n	(valid %)
Rank 1: No evidence of CNS damage/dysfunction	157	(9.1)
Rank 2: Neurobehavioral Disorder (moderate dysfunction)	897	(51.9)
Rank 3: Static Encephalopathy (severe dysfunction).....	386	(22.3)
Proportion of Rank 3 that are also Rank 4.....	94	(24.4)
Rank 4: Static Encephalopathy (structural/neurological abnormalities).....	289	(16.7)
Proportion of Rank 4 that are also Rank 3 (severe dysfunction)	94	(32.5)
Proportion of Rank 4 that are also Rank 2 (moderate dysfunction)	93	(32.2)

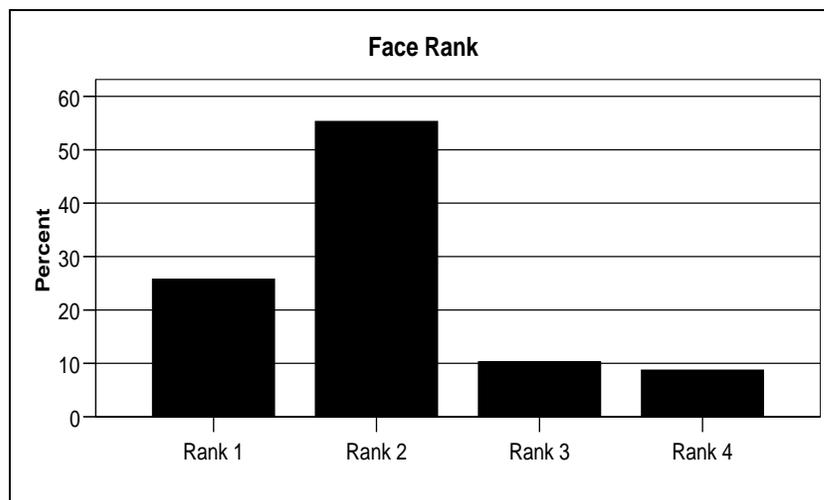


Growth Deficiency Rank	n	(valid %)
Rank 1: No Growth Deficiency (height and weight > 10 th percentile)	1154	(66.7)
Rank 2: Mild (Between Rank 1 and 3).....	246	(14.2)
Rank 3: Moderate (height or weight ≤ 3 rd percentile).....	195	(11.3)
Rank 4: Severe (height and weight ≤ 3 rd percentile).....	134	(7.8)

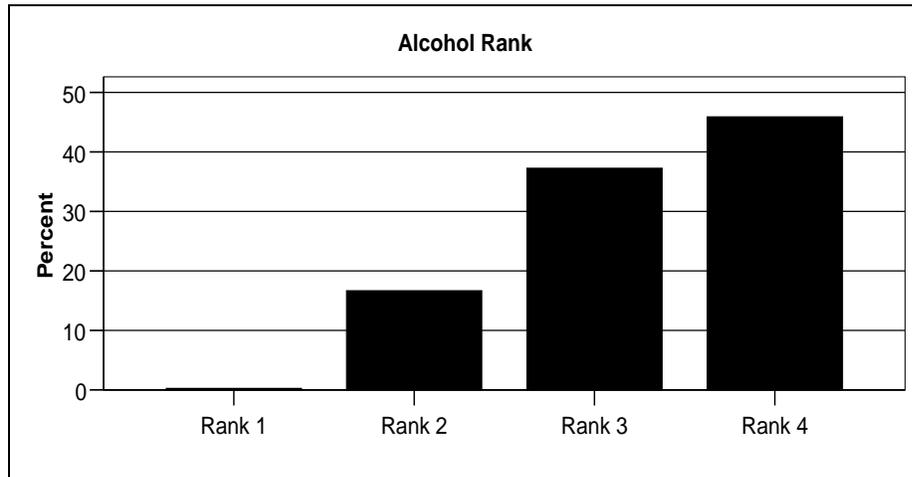


FAS Facial Phenotype Rank	n	(valid %)
<i>The three FAS diagnostic features include</i>		
1. palpebral fissure lengths two or more SDs below the mean,		
2. smooth philtrum (Rank 4 or 5 on the Lip-Philtrum Guide) and		
3. thin upper lip (Rank 4 or 5 on the Lip-Philtrum Guide)		

Rank 1: Normal (none of the three FAS facial features).....	445	(25.7)
Rank 2: Mild (see definition in Astley, 2004).....	956	(55.3)
Rank 3: Moderate (see definition in Astley, 2004)	177	(10.2)
Rank 4: Severe (all three of the three FAS facial features).....	151	(8.8)



Prenatal Alcohol Exposure Rank	n	(valid %)
Rank 1: Confirmed absence of exposure from conception to birth.....	4	(0.2)
Rank 2: Unknown exposure	288	(16.7)
Rank 3: Alcohol exposure confirmed, quantity moderate or unknown.....	644	(37.2)
Rank 4: Alcohol exposure confirmed, quantity high.....	793	(45.9)



Other Prenatal Exposures / Adverse Events:	n	(valid %)
Rank 1: None reported.....	14	(0.8)
Rank 2: Unknown.....	289	(16.9)
Rank 3: Some risk (e.g., poor prenatal care, other drug exposure, etc)	1265	(73.9)
Rank 4: High risk (other teratogenic exposure or genetic abnormality)	143	(8.4)

Other Postnatal Exposures / Adverse Events	n	(valid %)
Rank 1: None reported.....	61	(3.6)
Rank 2: Unknown	234	(13.7)
Rank 3: Some risk (e.g. some neglect, a few home placements).....	714	(41.7)
Rank 4: High risk (e.g. physical/sexual abuse, severe neglect, many placements).....	703	(41.0)

Physical Abuse	n	(valid %)
None reported.....	823	(48.0)
Suspected	100	(5.8)
Yes	517	(30.2)
Unknown.....	273	(16.0)

Sexual Abuse	n	(valid %)
None reported.....	875	(51.0)
Suspected	174	(10.2)
Yes	329	(19.2)
Unknown.....	335	(19.6)

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Birth Mother's Age (years) at Time of Child's Diagnosis	n	(valid %)
< 20	19	(1.4)
20 to 29.9	391	(28.2)
30 to 39.9	671	(48.4)
40 to 49.9	231	(16.7)
50 to 59.9	50	(3.6)
60 or greater	24	(1.7)
	mean	(SD)
	34.8	(8.9)
	minimum	maximum
	16.0	81.5

Birth Mother's Age (years) at Child's Birth	n	(valid %)
< 15	3	(0.0)
15 to 19.9	267	(19.3)
20 to 29.9	731	(52.7)
30 to 39.9	362	(26.1)
40 to 49.9	26	(1.9)
50 or greater	0	(0.0)
	mean	(SD)
	25.5	(6.3)
	minimum	maximum
	14.0	43.0

Reported Maternal Alcohol Use <u>Before</u> Pregnancy	mean	(SD)
Average number of drinks per occasion (n = 632)	9.3	(10.1)
Maximum number of drinks per occasion (n = 578)	14.5	(15.1)
Number of days of drinking per week (n = 793)	4.9	(2.2)

Reported Maternal Alcohol Use <u>During</u> Pregnancy	mean	(SD)
Average number of drinks per occasion (n = 668)	8.4	(9.9)
Maximum number of drinks per occasion (n = 598)	12.5	(12.2)
Number of days of drinking per week (n = 848)	4.5	(2.4)